

Table S1. Characteristics of included studies.

<i>Study: Author (year)(design)</i>	<i>Country Survey time</i>	<i>No. participants No. M, No. F</i>	<i>Mean age ± sd (years)/range</i>	<i>Screen-time : style ; categories</i>	<i>Depression measure; cutoff</i>	<i>Adjustment for confounders</i>	<i>Quality score</i>
Allahverdipour et al. (2010) (CS)	Iran 2008	444 220 M, 224 F	12–15	VG (hrs/day): 0, <1 (R), 1-1.5, >1.5	General Health Questionnaire (GHQ-28) subscale (depression) cutoff: 8	Not indicated	3
B dänger, et al. (2011) (CS)	Switzerland 2002	3681 2038 M, 1443 F	17.84 ± 0.08	CU (hrs/day): <2 (R), >2	Depressive Tendencies Scale. Cutoff: not indicated	Age; academic track; socioeconomic status; chronic condition; physical activity	4
Brunborg, et al. (2014) (LS)	Norway 2010-2012	1928 858 M, 1070 F	13–17	VG/CG: continuous	Hopkins Symptom Checklist Cutoff: not indicated	Age; gender; grades	4
Cao, et al. (2011) (CS)	China 2010	5003 2606 M, 2397 F	13.2 ± 1.00 11–16	TV; CU (hrs/day): ≤2 (R), >2	Depression Self-rating Scale for Children (DSRSC). Cutoff : 15	Gender, grade, family type, perceived socioeconomic status, BMI, fruit and vegetable intake, and fizzy drinks intake	5
Casiano, et al. (2012) (CS)	Canada 2000–2001	9137 4544 M, 4593 F	12 – 19	TV;VG;CU (hrs/day): <1/7, <1/3, 0.6-0.8, 0.9-1.5, 1.5-2, 2-3, >3	Composite International Diagnostic Interview (CIDI) short form (in-person interview). Cutoff: 0.90	Household income; gender	5
Chen, et al. (2009) (LS)	Taiwan 2005–2006	10347 5129 M, 5218 F	Grades 11–12	TV/VG; CU. continuous	15 items from Centers for Epidemiologic Studies–Depression Scale (CES-D) or Beck’s depression inventory (BDI; paper survey). Cutoff: no	Not indicate	3
Desai, et al. (2010) (CS)	USA 2000	3795 1728 M, 2067 F	14–18	VG/CG; (hrs/day): 0 (R), <1, 2, 2-3, >3	Report of being sad or hopeless for 2 wks or more in the previous year (paper survey). Cutoff: “yes” or “no”	Grade.	4
Godinho, et al. (2014) (CS)	Porto 2003–2004	1680 796 M, 884 F	13	TV/CU. (hrs/day): Total (≤2, 2-3, >3), TV (≤1, 1-≤2, >2), CU (≤2, >2)	BDI-second edition (II). Paper survey Cutoff: 13. <13(R)	Parental education	5
Hoare, et al. (2014) (CS)	Australia 2012	670; 295 M, 375 F	13.11 ± 0.62 11–14	TV/VG/CU. (hrs/day): <2 (R), >2	Short moods and feelings questionnaire (SMFQ). Cutoff: 10.	Age; parent’s level of education; school the participant attended	5

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Kim, et al. (2012) (CS)	South Korea 2009	75066 39612 M, 35454 F	12–18	CU (hrs/day): 0 (R), <1, 1-2, >2	Depression rate: report of being sad or hopeless for 2 wks or more in the previous year. Cutoff :”yes” or ”no”	Age; physical activity; residing region; type of school; subjective academic performance status; subjective economic status; presence of parents; whether family lives together; sedentary behavior in week and weekend.	4
Kremer, et al. (2014) (CS)	Australia 2006	7847	10–14	TV/ VG / CU (hrs/day): <2 (R), ≥ 2	SMFQ. Cut-point value (≥8)	Location and area- socioeconomic status	5
McHale, et al. (2001) (LS)	USA: Before 2001; follow up, 2 years	198 96 M, 102 F	10.9 ± 0.54	TV. Continuous	Children's depression inventory (CDI) (in-person interview). Cutoff: no	Parents' education; interview month; child gender	6
Messias, et al. (2011) (CS)	USA 2007 & 2009	2007: 4024 2009: 4404	16.1 ± 1.2 14–18	TV; VG;CU (hrs/day): 0 (R), <1, 1, 2, 3, 4, ≥5	During the past 12 months, did you ever feel so sad or hopeless almost every day for 2 weeks or more in a row that you stopped doing some usual activities? Cutoff: “yes”	Age; gender; race; smoking	5
Pantic, et al. (2012) (CS)	Serbia 2011	160 51 M, 109 F	18.02 ± 0.29	TV continuous	BDI-II. Cutoff:: <9 (minimal), 10-18 (mild) , 19-29(moderate), 30-63 (severe)	Not indicated	2
Primack,et al. (2009) (LC)	USA 1995–2002	4142; 2145 M; 1967 F	14–21	TV; CG Each hour of use	CES-D (range, 0-60). cutoff: 24 (F),22 (M)	Baseline CES-D score; age; gender; race/ethnicity; socioeconomic status; ever married; educational achievement of at least graduation from high school	6
Xin, et al. (2009) (CS)	China 2004	2444; 1180 M, 1264 F	13.85 ± 1.04	TV Low (R), middle, high.	CDI. Cut-off: 20	Age; gender; school grade; BMI; study time; sleep time; smoking behavior; alcohol consumption; unintentional injuries; parents' educational attainments, parents' job statuses; family structure.	5

Abbreviations: CS = cross sectional; LG = longitudinal study; LC = longitudinal cohort study; ST = screen time; VG = video game use; TV = television viewing; CU = computer use; CG = computer game; F = female; M = male; R = reference; BMI = body mass index.